

## Amendments to the Specification:

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Please replace paragraph number 4 with the following:

This purpose is achieved by means of a sensor device according to ~~claims 1 or 2~~ the present invention. Such a sensor device comprises  $i$  sensor elements of a first type which are interconnected in a circuitry  $(n \times m)$  matrix array with  $n$  row conductors and  $m$  column conductors, where  $i$ ,  $n$  and  $m$  are natural numbers other than zero, and where  $1 \leq i \leq n * m$ . It should be noted that a matrix array of this kind constitutes a circuitry arrangement. This means that a matrix array in a real arrangement does not require that the sensor elements be arranged in a regular grid layout, nor does it require that the individual connecting conductors run in straight lines parallel or perpendicular to one another. Each of the  $i$  sensor elements is connected between one row conductor and one column conductor.